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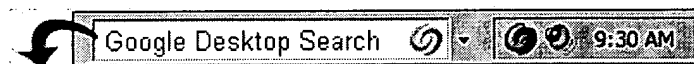
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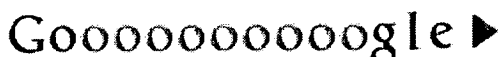
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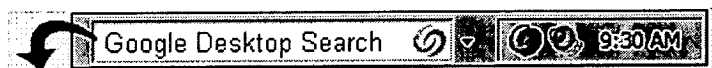
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... the magnitude by which the **constraint** compo- nents ... Second, **gradient** search methods are vulnerable to ... tentative identification of the **optimal** switching structure ...

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### Finite Element Method for the Solution of State-Constrained **Optimal** Control Problems

H Seywaldt - Journal OF Guidance, CONTROL, AND Dynamics, 1995 - [pdf.aiaa.org](http://pdf.aiaa.org)

... i =0 **Equation** (16), when taken with Eqs ... If the **optimal** solution contains a boundary arc of a con- straint ... for phase(s) i, which have an active state **constraint**. ...

Cited by 12 - [Web Search](#) - [csa.com](http://csa.com)

### Interactive Mechanical Design Variation for Haptics and CAD

DD Nelson, E Cohen - Computer Graphics Forum, 1999 - [blackwell-synergy.com](http://blackwell-synergy.com)

... Characteristics in Augmented Coordinates The **gradient** of the ... **Optimal** spanning trees can be constructed so that ... to be involved in only one **constraint** (each) on ...

Cited by 3 - [Web Search](#) - [ingentaconnect.com](http://ingentaconnect.com) - [cs.utah.edu](http://cs.utah.edu) - [eg.org](http://eg.org) - [all 5 versions](#) »

### ... -Evasion Type with State Constraints, Part 2: Numerical Computation of **Optimal** Open-Loop Strategies ...

MH BREITNER, HJ PESCH, W GRIMM - JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, 1993 - [springerlink.com](http://springerlink.com)

... 4), **gradient** methods (Refs ... B, the switching structure inactive/active/inactive is **optimal** (compare the ... and finally in region C, the state **constraint** is inactive ...



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[hpsweb.honeywell.com/.../en-US/AboutUs/UsersGroupSymposia/](http://hpsweb.honeywell.com/.../en-US/AboutUs/UsersGroupSymposia/)[UserInputSubcommittee/ContactUISMember/Default.htm](http://UserInputSubcommittee/ContactUISMember/Default.htm) - 148k - [Cached](#) - [Similar pages](#)**IMA Visitors for the 2002-2003 Year on Optimization and "Hot ...****Daniel** Kerm, University of Minnesota, Institute for Mathematics and its Applications... Michael R. Elgersma, Control and **Optimization**, **Honeywell** ...[www.ima.umn.edu/people/2002-2003participants.html](http://www.ima.umn.edu/people/2002-2003participants.html) - 461k - [Cached](#) - [Similar pages](#)**IMA Workshop: Computational Methods for Large Scale Integer ...**Integer Programming and Combinatorial **Optimization**: 9th International IPCO Conference,... PANEL DISCUSSION: Robert Bixby, Sebastian Ceria, Ellis **Johnson**, ...[www.ima.umn.edu/optimization/fall/op2.html](http://www.ima.umn.edu/optimization/fall/op2.html) - 95k - [Cached](#) - [Similar pages](#)**NA Digest Sunday, January 26, 1992 Volume 92 : Issue 4**Dr. **Daniel P. Johnson** **Honeywell** Systems and Research Center ... are there efficient and robust numerical **optimization** routines around ...[www.netlib.org/na-digest-html/92/v92n04.html](http://www.netlib.org/na-digest-html/92/v92n04.html) - 43k - [Cached](#) - [Similar pages](#)**SpringerLink - Chapter**Title: Global **Optimization** and Constraint Satisfaction: Second InternationalWorkshop, COCOS 2003, Lausanne, ... Email: [daniel.p.johnson@honeywell.com](mailto:daniel.p.johnson@honeywell.com) ...[dx.doi.org/10.1007/11425076\\_5](http://dx.doi.org/10.1007/11425076_5) - [Similar pages](#)**MINORITIES AND APPLIED MATHEMATICS-CONNECTIONS TO INDUSTRY**... Overview session on "concrete action"—Raymond **Johnson**, Fletcher Jones, ...New algorithmic methodology for large-scale constrained **optimization**. ...



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						<a href="#">Nov 29, 2002</a>	* <a href="#">Jun 23, 2003</a>			
							<a href="#">Jul 25, 2003</a>	*		
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							<a href="#">Oct 08, 2003</a>	*		
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2/9/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

08041367 INSPEC Abstract Number: C2001-10-1290D-101

**Title: Maximization of the ratio of two convex quadratic functions over a polytope**

Author(s): Gotoh, J.; Konno, H.

Author Affiliation: Inst. of Policy & Planning Sci., Tsukuba Univ., Ibaraki, Japan

Journal: Computational Optimization and Applications vol.20, no.1  
p.43-60

Publisher: Kluwer Academic Publishers,

Publication Date: Oct. 2001 Country of Publication: Netherlands

CODEN: CPPPEF ISSN: 0926-6003

SICI: 0926-6003(200110)20:1L.43:MRCQ;1-#

Material Identity Number: P970-2001-008

U.S. Copyright Clearance Center Code: 0926-6003/2001/\$19.50

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: In this paper, we will develop an algorithm for solving a quadratic fractional programming problem which was recently introduced by Lo and MacKinlay to construct a maximal predictability portfolio, a new approach in portfolio analysis. The objective function of this problem is defined by the ratio of two convex quadratic functions, which is a typical global optimization problem with multiple local optima. We will show that a well-designed branch-and-bound algorithm using (i) Dinkelbach's parametric strategy, (ii) linear overestimating function and (iii) omega -subdivision strategy can solve problems of practical size in an efficient way. This algorithm is particularly efficient for Lo-MacKinlay's problem where the associated nonconvex **quadratic** programming problem has low rank nonconcave property. (13 Refs)

Subfile: C

Descriptors: convex programming; economic cybernetics; forecasting theory ; quadratic programming; tree searching

Identifiers: convex quadratic functions; quadratic fractional programming ; maximal predictability portfolio; portfolio analysis; quadratic programming; branch-and-bound algorithm

Class Codes: C1290D (Systems theory applications in economics and business); C1180 (Optimisation techniques); C1160 (Combinatorial mathematics)

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2/9/2 (Item 2 from file: 2)

DIALOG(R) File 2:INSPEC

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07631471 INSPEC Abstract Number: C2000-08-1290-020

**Title: A study of the global optimization approach to spherical packing problems**

Author(s): Sutou, A.; Dai, Y.

Author Affiliation: Enterprise Server-Syst. Res. Dept., Hitachi Ltd., Japan

Journal: Research Reports on Mathematical and Computing Sciences, Series B (Operations Research) no.B-361 p.1-26

Publisher: Tokyo Inst. Technol,

Publication Date: May 2000 Country of Publication: Japan

CODEN: RRIBEF ISSN: 0912-2389

SICI: 0912-2389(200005)B361L.1:SGOA;1-N

Material Identity Number: F285-2000-006

DTU 83  
1/10/02

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: We consider a spherical packing problem in a 3D polytope. Given a set of unequal spheres and a polytope, our goal is to pack them in a way that: 1) the spheres do not overlap with each other, and 2) the sum of the volumes of the spheres packed in the polytope is maximized. This spherical packing problem can be formulated as a nonconvex optimization problem with quadratic constraints and a **linear** objective function. It has an application in automated radiosurgical treatment planning. We derive a **linear** programming relaxation of the problem with respect to a given simplex, a component of the simplicial **subdivision** which underlies our proposed algorithm. By exploring the special structures of the problem, we present improvements on the existing simplicial branch-and-bound algorithm for the general **nonconvex quadratic** program. Heuristic algorithms are also designed to strengthen the efficiency of the algorithm. Our computational study shows that the algorithm can successfully solve the problem to certain size. (10 Refs)

Subfile: C

Descriptors: bin packing; **linear** programming; quadratic programming; relaxation theory

Identifiers: global optimization; spherical packing problems; 3D polytope; objective function; radiosurgical treatment; **linear** programming; relaxation; simplex; branch-and-bound; **nonconvex quadratic** programming; Heuristic algorithms

Class Codes: C1290 (Applications of systems theory); C1180 (Optimisation techniques)

Copyright 2000, IEE

Your SELECT statement is:

s (((non-convex or nonconvex or non()convex) (2n)quadratic? ?) and  
(subdivision??) and (linear?)) not py>2001

*Datalog*  
*1/16/02*

Items	File
----	----
2	2: INSPEC_1898-2006/Dec W3
1	7: Social_SciSearch(R)_1972-2006/Jan W1
1	8: Ei Compendex(R)_1970-2006/Jan W1
1	34: SciSearch(R) Cited Ref Sci_1990-2006/Jan W1
Examined 50 files	
Examined 100 files	
1	144: Pascal_1973-2006/Dec W3
Examined 150 files	
Processing	
Processing	
Processing	
Examined 200 files	
Examined 250 files	
1	440: Current Contents Search(R)_1990-2006/Jan 10
Examined 300 files	
Examined 350 files	
Examined 400 files	
>>>I/O error in file 619	
Examined 450 files	
Examined 500 files	
Examined 550 files	
Processing	

*knw*

6 files have one or more items; file list includes 560 files.  
One or more terms were invalid in 107 files.

Your SELECT statement is:

s ((daniel()johnson) and honeywell) not py>2000

Items	File
2	16: Gale Group PROMT(R)_1990-2006/Jan 10
1	20: Dialog Global Reporter_1997-2006/Jan 10
1	47: Gale Group Magazine DB(TM)_1959-2006/Jan 10
Examined 50 files	
Examined 100 files	
5	148: Gale Group Trade & Industry DB 1976-2006/Jan 10
1	149: TGG Health&Wellness DB(SM)_1976-2006/Jan W1
Examined 150 files	
Examined 200 files	
Examined 250 files	
Examined 300 files	
1	492: Arizona Repub/Phoenix Gaz_19862002/Jan 06
Examined 350 files	
1	608: KR/T Bus.News._1992-2006/Jan 10
Examined 400 files	
>>>I/O error in file 619	
1	621: Gale Group New Prod.Annou.(R)_1985-2006/Jan 10
1	636: Gale Group Newsletter DB(TM)_1987-2006/Jan 09
1	649: Gale Group Newswire ASAP(TM)_2006/Jan 06
Examined 450 files	
1	701: St Paul Pioneer Pr Apr_1988-2005/Dec 30
1	702: Miami Herald_1983-2006/Jan 05
1	724: (Minneapolis)Star Tribune_1989-1996/Feb 04
1	727: Canadian Newspapers_1990-2006/Jan 10
1	735: St. Petersburg Times_1989- 2006/Jan 08
Examined 500 files	
1	810: Business Wire_1986-1999/Feb 28
Examined 550 files	
Processing	
1	996: NewsRoom 2000

17 files have one or more items; file list includes 560 files.  
One or more terms were invalid in 106 files.

Dialog  
4/10/06

here

Drabg  
4/10/06

Your SELECT statement is:  
s (constraint()envelope()scheduling)

Items	File
3	2: INSPEC_1898-2006/Dec W3
1	8: Ei Compendex(R)_1970-2006/Jan W1
2	34: SciSearch(R) Cited Ref Sci_1990-2006/Jan W1
1	56: Computer and Information Systems Abstracts_1966-2005/Dec
Examined 50	files
1	88: Gale Group Business A.R.T.S._1976-2006/Jan 06
1	95: TEME-Technology & Management_1989-2006/Jan W2
Examined 100	files
1	144: Pascal_1973-2006/Dec W3
Examined 150	files
Examined 200	files
1	349: PCT FULLTEXT_1979-2005/UB=20051229,UT=20051222
Examined 250	files
1	440: Current Contents Search(R)_1990-2006/Jan 10
Examined 300	files
1	484: Periodical Abs Plustext_1986-2006/Jan W1
Examined 350	files
Examined 400	files
>>>I/O	error in file 619
Examined 450	files
Examined 500	files
Examined 550	files

10 files have one or more items; file list includes 560 files.  
One or more terms were invalid in one file.

Must

Your SELECT statement is:  
s (gradient()constraint()equation()subdivision)

Items	File
----	----
1	2: INSPEC_1898-2006/Dec W3
1	34: SciSearch(R) Cited Ref Sci_1990-2006/Jan W1
Examined 50	files
Examined 100	files
1	144: Pascal_1973-2006/Dec W3
Examined 150	files
Examined 200	files
Examined 250	files
Examined 300	files
Examined 350	files
Examined 400	files
Examined 450	files
Examined 500	files
Examined 550	files

3 files have one or more items; file list includes 560 files.

Dr. Wang  
4/10/06

} Kurt

Dr. A. B. G.  
4/10/06

Your SELECT statement is:  
s (global()equation()solver? ?) not py>2001

Items	File
-----	-----
Examined 50 files	
Examined 100 files	
Examined 150 files	
Processing	
Processing	
Examined 200 files	
Examined 250 files	
Examined 300 files	
Examined 350 files	
Examined 400 files	
>>>I/O error in file 619	
1 654: US Pat.Full._1976-2006/Jan 03	
Examined 450 files	
Examined 500 files	
Examined 550 files	
Processing	

1 file has one or more items; file list includes 560 files.  
One or more terms were invalid in 105 files.

4/10/06

Dr. Tulog  
1/10/06

Your SELECT statement is:

s (gradient()optimal()constraint()equation()subdivision)

Items	File
----	----
1	2: INSPEC_1898-2006/Dec W3
1	8: Ei Compendex(R)_1970-2006/Jan W1
1	34: SciSearch(R) Cited Ref Sci_1990-2006/Jan W1
Examined 50	files
Examined 100	files
1	144: Pascal_1973-2006/Dec W3
Examined 150	files
Examined 200	files
Examined 250	files
Examined 300	files
Examined 350	files
Examined 400	files
Examined 450	files
Examined 500	files
Examined 550	files

} kwtz

4 files have one or more items; file list includes 560 files.



btalog  
4/10/06

Your SELECT statement is:

s (((non-convex or non()convex or nonconvex) (3n)quadratic????) and  
(bound???) and (local()linear?)) not py>2001

Items	File
-----	-----
Examined 50 files	
Examined 100 files	
Examined 150 files	
Processing	
Processing	
Processing	
Examined 200 files	
Examined 250 files	
Examined 300 files	
Examined 350 files	
Examined 400 files	
>>>I/O error in file 619	
Examined 450 files	
Examined 500 files	
Examined 550 files	
Processing	

No files have one or more items; file list includes 560 files.  
One or more terms were invalid in 107 files.

East

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
<i>with</i> L1	5	((nonconvex or non-convex or (non ADJ convex)) NEAR3 quadratic\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 11:44
L2	0	constraint ADJ envelope ADJ scheduler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 11:45
L3	0	constraint ADJ envelope ADJ scheduling	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 11:45
L4	6198	johnson-d\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 11:45
L5	0	3 and honeywell	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 11:45
<i>Skipped this</i> L6	13	boddy-m\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/10 11:45